

## Anca Dana Dragomir

### CONTACT INFORMATION

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### EDUCATION

**The University of North Carolina at Chapel Hill**  
School of Public Health, Department of Epidemiology  
Doctor of Philosophy, Expected 2007

**University of Bucharest, Romania**  
Department of Mathematics  
Certification in Education (Mathematics), 1987

**University of Timisoara, Romania**  
Department of Mathematics  
Licentiate in Mathematics, 1983  
Thesis Title: The Generalized Inverse of Morphism

### EMPLOYMENT

**Predoctoral IRTA Fellow, 2005 – present**  
National Institute of Environmental Health Sciences  
Epidemiology Branch

**Statistician II, 2000 - 2004**  
University of North Carolina at Chapel Hill  
School of Medicine, Thurston Arthritis Research Center

**Teaching Assistant, Spring 2000**  
University of North Carolina at Chapel Hill  
School of Public Health, Department of Epidemiology

**Research Assistant, 1994 - 1999**  
University of North Carolina at Chapel Hill  
School of Medicine, Thurston Arthritis Research Center

**Research Assistant, 1993 - 1994**  
University of South Carolina  
School of Medicine, Department of Family Practice and Preventive Medicine

**Tenured Faculty, 1991 - 2000**

University of Timisoara, Romania  
Department of Mathematics

**Mathematician, 1989 - 1991**

University of Timisoara, Romania  
Department of Mathematics and Department of Physics

**Adjunct Faculty, 1986 - 1989**

The Polytechnic Institute Traian Vuia, Timisoara, Romania  
Department of Mathematics

**PUBLICATIONS**

Lamers RAN, Van Nesselrooij JJJ, Kraus VB, Jordan JM, Renner JB, **Dragomir AD**, Luta G, Van der Greef J, DeGroot J. Identification of an Urinary Metabolite Profile Associated with Osteoarthritis, *Osteoarthritis and Cartilage*, 2005; 13(9):762-8.

Elliott A, Kraus VB, Luta G, Stabler T, Renner JB, **Dragomir AD**, Helmick CG, Hochberg MC, Jordan JM. Serum Hyaluronan Levels and Radiographic Knee Osteoarthritis in African Americans and Caucasians in the Johnston County Osteoarthritis Project, *Arthritis and Rheumatism*, 2005; 52(1):105-11.

Jordan JM, Luta G, Stabler T, Renner JB, **Dragomir AD**, Vilim V, Hochberg MC, Helmick CG, Kraus VB. Ethnic and sex differences in serum levels of cartilage oligomeric matrix protein: the Johnston County Osteoarthritis Project. *Arthritis and Rheumatism*, 2003; 48(3):675-81.

**Dragomir AD**, Kraus VB, Renner JB, Luta G, Clark AG, Vilim V, Hochberg MC, Helmick CG, Jordan JM. Serum cartilage oligomeric matrix protein and clinical signs and symptoms of potential pre-radiographic hip and knee pathology. *Osteoarthritis and Cartilage*, 2002; 10(9):687-91.

Kraus VB, Clark AG, Jordan JM, **Dragomir AD**, Luta G, Vilim V. Diagnosis of osteoarthritis in relation to molecular processes in cartilage: comment on the article by Clark et al – Reply. *Arthritis and Rheumatism* 2000; 43:1426-7.

Gesler W, Jordan JM, **Dragomir A**, Luta G, Fryer JG. A geographical assessment of health care coverage in two “rural” North Carolina communities. *Southeastern Geographer* 1999; 39:127-44.

Clark AG, Jordan JM, Vilim V, Renner JB, **Dragomir AD**, Luta G, Kraus VB. Serum cartilage oligomeric matrix protein reflects osteoarthritis presence and severity: the Johnston County Osteoarthritis Project. *Arthritis and Rheumatism* 1999; 42:2356-64.

Jordan JM, Luta G, Renner JB, **Dragomir A**, Hochberg MC, Fryer JG. Knee pain and knee osteoarthritis severity in self-reported task-specific disability: The Johnston County Osteoarthritis Project. *Journal of Rheumatology* 1997; 24:1344-9.

Jordan JM, Luta G, Renner JB, **Dragomir A**, Hochberg MC, Fryer JG. Ethnic differences in self-reported functional status in the rural South: the Johnston County Osteoarthritis Project. *Arthritis Care and Research* 1996; 9:483-91.

Jordan JM, Luta G, Renner JB, Linder GF, **Dragomir A**, Helmick CG, Fryer JG. Self-reported functional status in osteoarthritis of the knee in a rural, Southern community: the role of sociodemographic factors, obesity, and knee pain. *Arthritis Care and Research* 1996; 9:273-8.

**Dragomir AD.** Examples of exact categories with Serre class and Euler-Poincare mapping. Seminar Arghiriade 16, University of Timisoara, Romania, 1986.

**Dragomir AD.** The defect and the rank of a morphism in exact categories with Serre class. Seminar Arghiriade 14, University of Timisoara, Romania, 1985.

Schwab E, **Dragomir AD.** The rank of the composition of two morphisms in exact categories with Serre class. Seminar Arghiriade 13, University of Timisoara, Romania, 1983.

## ABSTRACTS AND PRESENTATIONS

**Dragomir AD**, Jordan JM, Kraus VB, Luta G, Renner JB, Poole AR. Altered Levels of Serum Cartilage Markers in Postmenopausal African American and Caucasian Women on Current Hormone Replacement Therapy, *Osteoarthritis and Cartilage*, 2004; 12:S54-S55 Suppl. B.

Luta G, **Dragomir AD**, Elliott A, Renner JB, Jordan JM. A Comparison of Risk Factors for Tibiofemoral and Patellofemoral Knee Osteoarthritis in an Ethnically-diverse Study Population, *Osteoarthritis and Cartilage*, 2004; 12:S23 Suppl. B.

Abbate L, Renner JB, Luta G, **Dragomir AD**, Hochberg MC, Helmick CG, Jordan JM. Comparing Body Mass Index, Body Composition, and Body Fat Distribution as Predictors of Radiographic Knee Osteoarthritis, *Osteoarthritis and Cartilage*, 2004; 12:S22-S23 Suppl. B.

Helmick CG; Renner, JB; Luta G; **Dragomir AD**; Kalsbeek W; Abbate L; Hochberg MC; Jordan JM. Prevalence of knee pain, radiographic knee Osteoarthritis (OA), severe radiographic knee OA, and symptomatic knee OA: The Johnston county osteoarthritis project. *Arthritis and Rheumatism* 2004; 50 (9):S46 Suppl.

Helmick CG; Renner JB; Luta G; **Dragomir AD**; Kalsbeek W; Abbate L; Hochberg MC; Jordan JM. Prevalence of hip pain, radiographic hip osteoarthritis (OA), severe

radiographic hip OA, and symptomatic hip OA: The Johnston county osteoarthritis project. *Arthritis and Rheumatism* 2004; 50 (9):S47 Suppl.

Abbate L, Renner JB, Stevens J, Luta G, **Dragomir AD**, Woodard J, Hochberg MC, Helmick CG. Do Body Composition and Body Fat Distribution Explain Ethnic Differences in Radiographic Knee Osteoarthritis in African American and Caucasian Women? *Arthritis and Rheumatism* 2004; 50 (9):S268 Suppl.

Jordan JM, Kraus VB, Renner JB, Luta G, **Dragomir AD**, Ionescu M, Lobanok T, King L, Poole AR. Predictive Ability of Serum Biomarkers of Types I and II Collagen Cleavage and Aggrecan Turnover in Incidence and Progression of Radiographic Knee Osteoarthritis in African Americans and Caucasians, *Arthritis and Rheumatism* 2004; 50 (9):S481 Suppl.

Jordan JM, Kraus VB, Renner JB, Luta G, **Dragomir AD**, Ionescu M, Lobanok T, King L, Poole AR. Ethnic and Gender Differences in Serum Biomarkers of Types I and II Collagen Cleavage and Aggrecan Turnover in African Americans and Caucasians, *Arthritis and Rheumatism* 2004; 50 (9):S481 Suppl..

**Dragomir AD**; Kraus VB; Luta G; Stabler T; Renner JB; Helmick CG; Hochberg MC; Jordan JM. Lower levels of 2 putative biomarkers of osteoarthritis (OA) in postmenopausal African American and Caucasian women on current hormone replacement therapy, *Arthritis and Rheumatism* 2003; 48 (9):S460 Suppl.

Helmick C; Renner J; Luta G; **Dragomir AD**; Kalsbeek W; Abbate L; Hochberg MC; Jordan JM. Prevalence of knee pain, radiographic knee osteoarthritis (OA), severe radiographic knee OA, and symptomatic knee OA: The Johnston County Osteoarthritis Project, *Arthritis and Rheumatism* 2003; 48 (9):S461 Suppl.

Helmick C; Renner J; Luta G; **Dragomir AD**; Kalsbeek W; Abbate L; Hochberg MC; Jordan JM. Prevalence of hip pain, radiographic hip osteoarthritis (OA), severe radiographic hip OA, and symptomatic hip OA: The Johnston County Osteoarthritis Project, *Arthritis and Rheumatism* 2003; 48 (9):S462 Suppl.

Jordan JM; Renner JB; Luta G; **Dragomir AD**; Hochberg MC; Helmick CG. Incidence and progression of radiographic hip Osteoarthritis (OA) in African Americans and Caucasians, *Arthritis and Rheumatism* 2003; 48 (9):S463 Suppl.

Jordan JM; Kraus VB; Renner JB; Luta G; **Dragomir AD**; Stabler T; Vilim V; Hochberg MC; Helmick CG. Associations between medical co-morbidities and putative biomarkers of osteoarthritis (OA), *Arthritis and Rheumatism* 2003; 48 (9):S464 Suppl.

Jordan JM; Renner JB; Luta G; **Dragomir AD**; Hochberg MC; Helmick CG. Incidence and progression of radiographic knee Osteoarthritis (OA) in African Americans and Caucasians, *Arthritis and Rheumatism* 2003; 48 (9):S1738 Suppl.

Stabler TV; Jordan JM; Kraus VB; Luta G; Renner JB; **Dragomir AD**; Hochberg MC; Helmick CG. Serum C-reactive protein (CRP) levels and osteoarthritis, *Clinical Chemistry* 2003, 49 (6):A53 Part 2 Suppl.

Jordan JM; Luta G; Stabler T; Renner JB; **Dragomir AD**; Hochberg MC; Helmick CG; Kraus VB. Serum C-reactive protein (CRP) and osteoarthritis (OA). *Arthritis and Rheumatism* 2002; 46 (9):S373 Suppl.

**Dragomir AD**; Kraus VB; Stabler T; Luta G; Renner JB; Arab L; Hochberg MC; Helmick CG; Jordan JM. Lower levels of serum cartilage oligomeric matrix protein (COMP) in postmenopausal African-American and Caucasian women on current hormone replacement therapy (HRT). *Arthritis and Rheumatism* 2002; 46 (9):S373 Suppl.

Jordan JM; Luta G; Stabler T; Renner JB; **Dragomir AD**; Hochberg MC; Helmick CG; Kraus VB. Serum hyaluronic acid levels and radiographic knee Osteoarthritis in African-Americans and Caucasians. *Arthritis and Rheumatism* 2002; 46 (9):S464 Suppl.

Siaton BC; **Dragomir AD**; Luta G; Renner JB; Callahan LF; Hochberg MC; Helmick CG; Jordan JM. Associations between limited educational attainment and symptomatic knee osteoarthritis are not explained by lack of exposure to hormone replacement therapy. *Arthritis and Rheumatism* 2002; 46 (9):S465 Suppl.

**Dragomir AD**; Arab L; Luta G; Renner JB; Hochberg MC; Helmick CG; Jordan JM. Current hormone replacement therapy (HRT) and symptomatic knee and hip osteoarthritis (OA) in postmenopausal African-American and caucasian women. *Arthritis and Rheumatism* 2002; 46 (9):S469 Suppl.

**Dragomir AD**, Jordan JM, Renner JB, Luta G, Hochberg MC, Helmick CG. Current hormone replacement therapy (HRT) and radiographic knee and hip osteoarthritis (OA) in post-menopausal African American and Caucasian women. *Arthritis and Rheumatism* 2001; 44:S375.

Huguenin T, Jordan JM, Kraus VB, Luta G, Renner JB, **Dragomir AD**, Salazar A, Hochberg MC, Helmick CG. Clinical and symptomatic hand osteoarthritis and functional status. *Arthritis and Rheumatism* 2001; 44:S226.

**Dragomir AD**, Renner JB, Kraus VB, Clark A, Luta G, Hochberg MC, Helmick CG, Jordan JM. Serum cartilage oligomeric matrix protein (COMP) is associated with joint pain, independent of knee and hip osteoarthritis (OA). *Arthritis and Rheumatism* 2000; 43:S136.

Jordan JM, Renner JB, Luta G, **Dragomir AD**, Hochberg MC, Helmick CG. Gender and ethnic differences in radiographic knee and hip OA. *Arthritis and Rheumatism* 2000; 43:S172.

Huguenin T, Jordan JM, Luta G, Renner JB, Dragomir AD, Kraus VB, Salazar A, Hochberg MC, Helmick CG. Hand osteoarthritis (OA) as a marker of knee and hip OA severity. *Arthritis and Rheumatism* 2000; 43:S136.

Clark AG, Jordan JM, **Dragomir AD**, Luta G, Renner JB, Vilim V, Kraus VB. Serum cartilage oligomeric matrix protein levels increase with knee pain in both the presence and absence of osteoarthritis. *Osteoarthritis Research Society International* 1999.

Jordan JM, Kraus VB, Renner JB, Luta G, **Dragomir A**, Clark A, Vilim V, Hochberg MC, Helmick CG. Factors associated with serum cartilage oligomeric matrix protein vary by ethnicity. *Arthritis and Rheumatism* 1999; 42:S298.

Jordan JM, Luta G, Renner JB, **Dragomir A**, Fryer JG, Helmick CG, Hochberg MC. African-Americans face an increased risk of bilateral knee osteoarthritis (OA) from obesity. *Arthritis and Rheumatism* 1997; 40:S331.

Jordan JM, Renner JB, Luta G, **Dragomir A**, Fryer JG, Helmick CG, Hochberg MC. Concomitant knee and hip osteoarthritis (OA) and performance-based functional assessment. *Arthritis and Rheumatism* 1997; 40:S110.

Jordan JM, Renner JB, Luta G, **Dragomir A**, Fryer JG, Helmick CG, Hochberg MC. Hip osteoarthritis (OA) is not rare in African-Americans and is different than in Caucasians. *Arthritis and Rheumatism* 1997; 40:S236.

Jordan JM, Renner JB, Luta G, **Dragomir A**, Fryer JG, Helmick CG, Hochberg MC. Knee osteoarthritis (OA) is different in African-Americans than in Caucasians. *Arthritis and Rheumatism* 1997; 40:S236.

Jordan JM, Luta G, Renner JB, **Dragomir A**, Fryer JG, Hochberg MC, Helmick CG. Independent and additive effects of knee and hip pain upon self-reported disability. *Arthritis and Rheumatism* 1996; 39:S113.

Jordan JM, Luta G, Renner JB, Roseberry R, **Dragomir A**, Fryer JG, Hochberg MC, Helmick CG. The importance of knee pain and knee osteoarthritis severity in self-reported disability. *Arthritis and Rheumatism* 1996; 39:S113.

Jordan JM, Luta G, Renner JB, **Dragomir A**, Fryer JG, Hochberg MC, Helmick CG. Ethnic differences in self-reported disability. *Arthritis and Rheumatism* 1996; 39:S113.

**Dragomir AD.** Referring to a model that generalizes the rhombohedron. Proceedings of the Third Symposium of Mathematics and its Applications. Timisoara November 3-4, 1989, Timisoara Research Center of the Romanian Academy and "Traian Vuia" Polytechnical Institute, Department of Mathematics, p117-122, 1990.

**Dragomir AD.** S-morphisms in exact categories. Proceedings of the Algebra Conference, June 9-10 1988, University of Brasov, Romania, p101-104, 1988.

**Dragomir AD.** Exact categories with Serre class. Proceedings of the Second Symposium of Mathematics and its Applications. Timisoara, October 30-31 1987, Timisoara Research Center of the Romanian Academy and “Traian Vuia” Polytechnical Institute, Department of Mathematics, p209-212, 1988.

**Dragomir AD.** Examples of exact categories with Serre class and Euler-Poincare mapping. Proceedings of the Conference on Algebra Timisoara, June 4-7 1986, p29-32. Universitatea din Timisoara, Facultatea de Stiinte ale Naturii, 1987.

**Dragomir AD.** The defect and the rank of a morphism in exact categories with Serre class. Proceedings of the Conference on Algebra, Preprint No.9, 1986, University of Cluj-Napoca, Faculty of Mathematics, Research Seminars, 1986.

Schwab E, **Dragomir AD.** The rank of the composition of two morphisms in exact categories with Serre class. Analele Stiintifice ale Universitatii “Al. I. Cuza” Iasi, Romania, Tomul XXXI, S I a, 1985 (supliment).

### **AWARDS**

Predoctoral Intramural Research Training Award, National Institute of Environmental Health Sciences, 2005-2007

Travel Grant from the Soros Foundation for an Open Society, 1991

Original Research Paper Award, University of Craiova, Romania, 1982